

FOREST INSECT AND DISEASE MANAGEMENT UNIT
U.S FOREST SERVICE
DORAVILLE, GEORGIA

REPORT OF AERIAL DETECTION SURVEY

LAND OWNERSHIP OR SURVEY AREA: Cherokee National Forest,
Hiawassee, Ocoee, Tellico,
Nolichucky, Unaka, Watauga
Ranger Districts

STATE: Tennessee

AREA WITHIN SURVEY BOUNDARY: 1,204,112 acres

DATES SURVEYED: 7/21/77
8/11/77
8/24/77

PERCENT COVERAGE: 50%

AIRCRAFT: Cessna 182

CREW: C. W. Dull
R. F. Bassett
W. A. Carothers
E. B. McClatchey

SURVEY OBJECTIVES: To detect forest insect and disease activity on the Cherokee National Forest. Special emphasis was placed on delineating areas of pine mortality suspected to be caused by southern pine beetle activity.

SURVEY RESULTS

A total of eight spots containing an estimated 40 red and fading pine trees was detected on the Cherokee National Forest. Spot size ranged from 1 to 15 trees. Large areas of standing dead pine trees were observed, probably killed by the southern pine beetle. The location and size of each spot is shown on the attached maps.

Scattered defoliation, primarily along Iron Mountain Ridge, was detected from the air. The causal agent for this defoliation is unknown at this time.

Two areas which appeared to be hardwood defoliation on Roan Mountain were observed during the aerial survey. However, subsequent ground checks revealed evidence of winter and late frost injury to beech.

CONCLUSIONS

Southern pine beetle activity is at a very low level on the Cherokee National Forest.

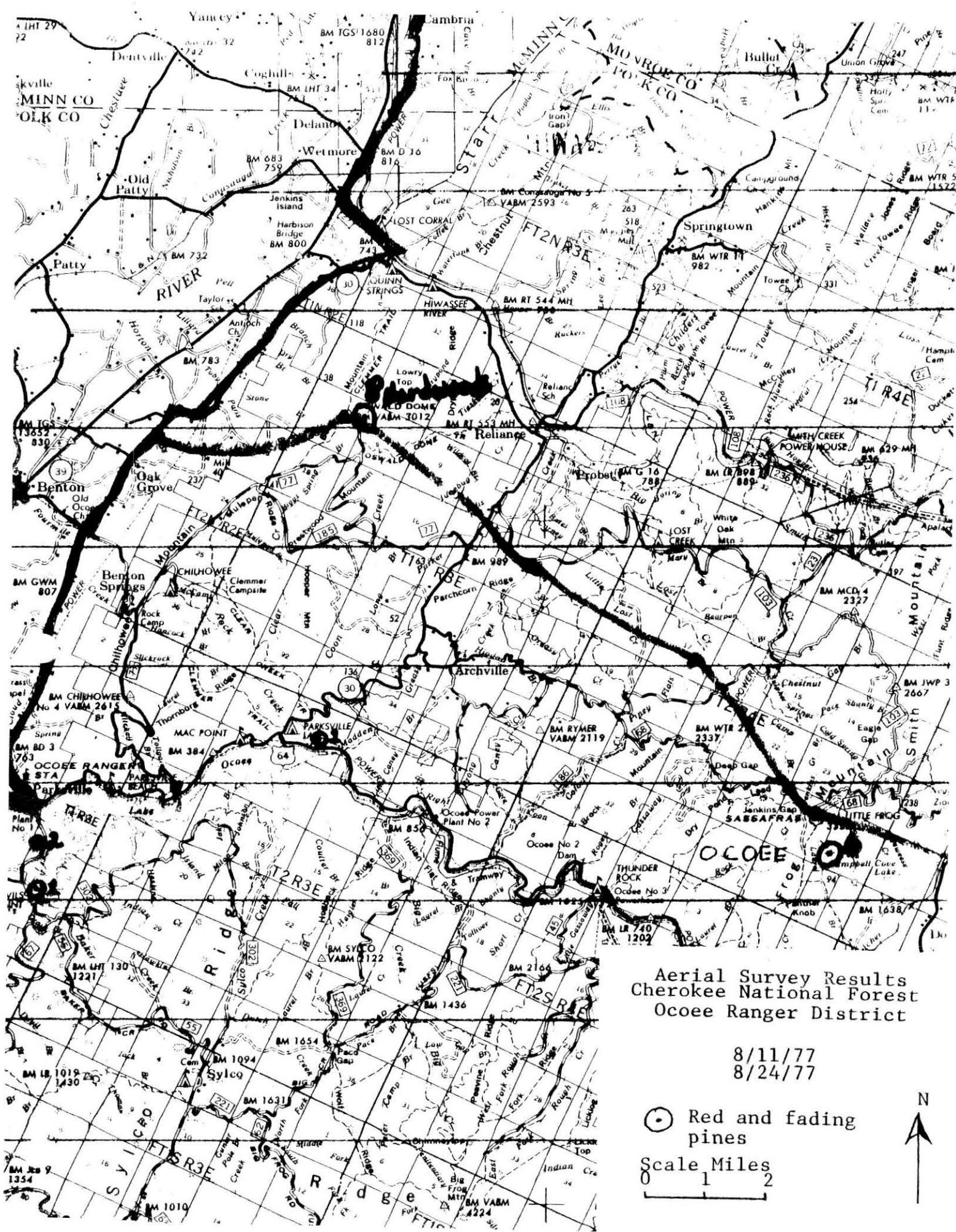
Defoliated areas detected during this survey should be resurveyed next summer to determine the causal agent(s).

For any additional information, Contact

Forest Insect & Disease Management Unit, S&PF
USFS - Southeastern Area

Northgate Office Park, Room 2103
3620 Interstate 85, N. E.
Doraville, Ga. 30340
Telephone: 404-221-4796

or
P. O. Box 5895
Asheville, N. C. 28803
Telephone: 704-258-2850
Ext. 625



Aerial Survey Results
Cherokee National Forest
Ocoee Ranger District

8/11/77
8/24/77

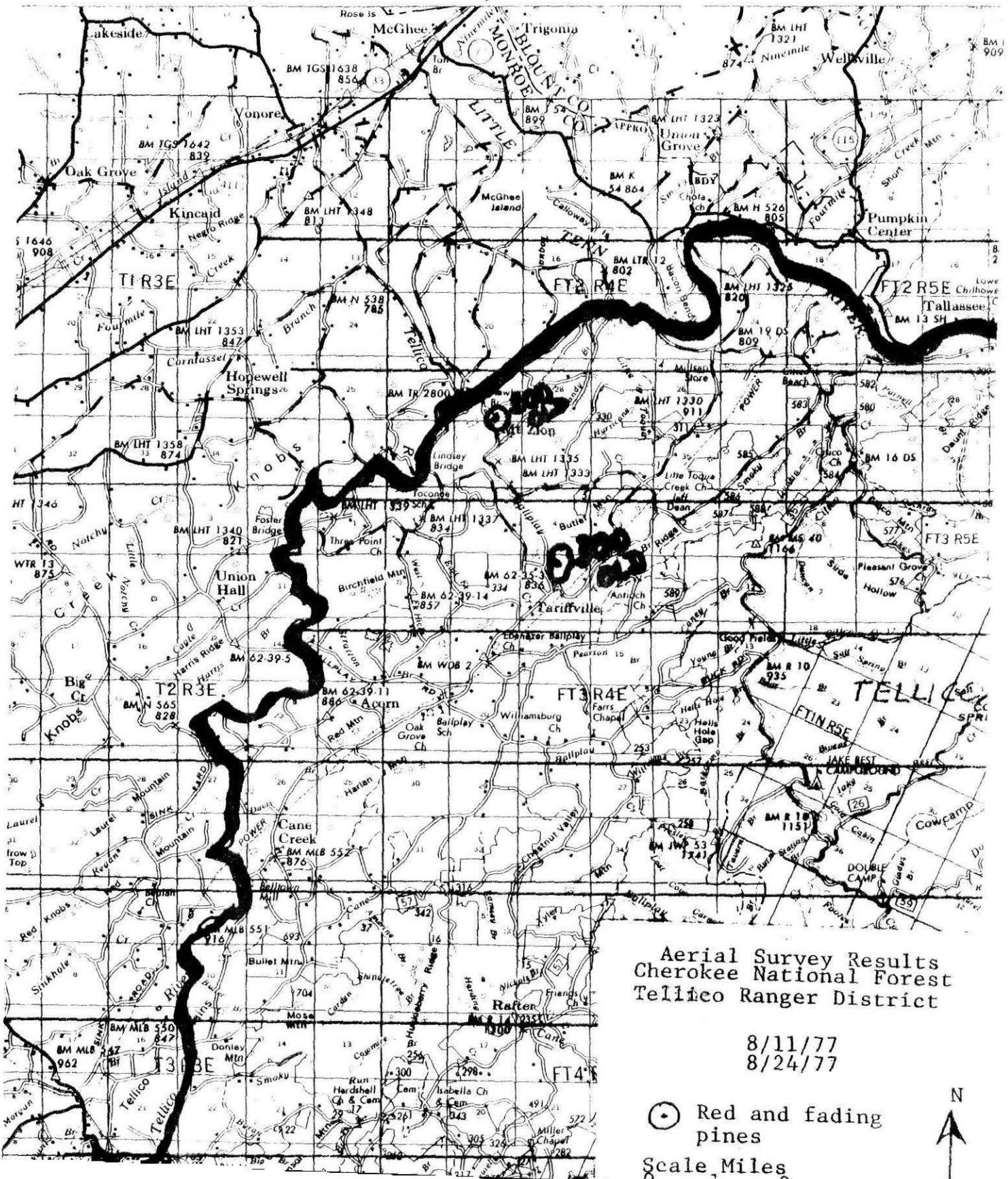
- Red and fading pines

Scale Miles
0 1 2



10'

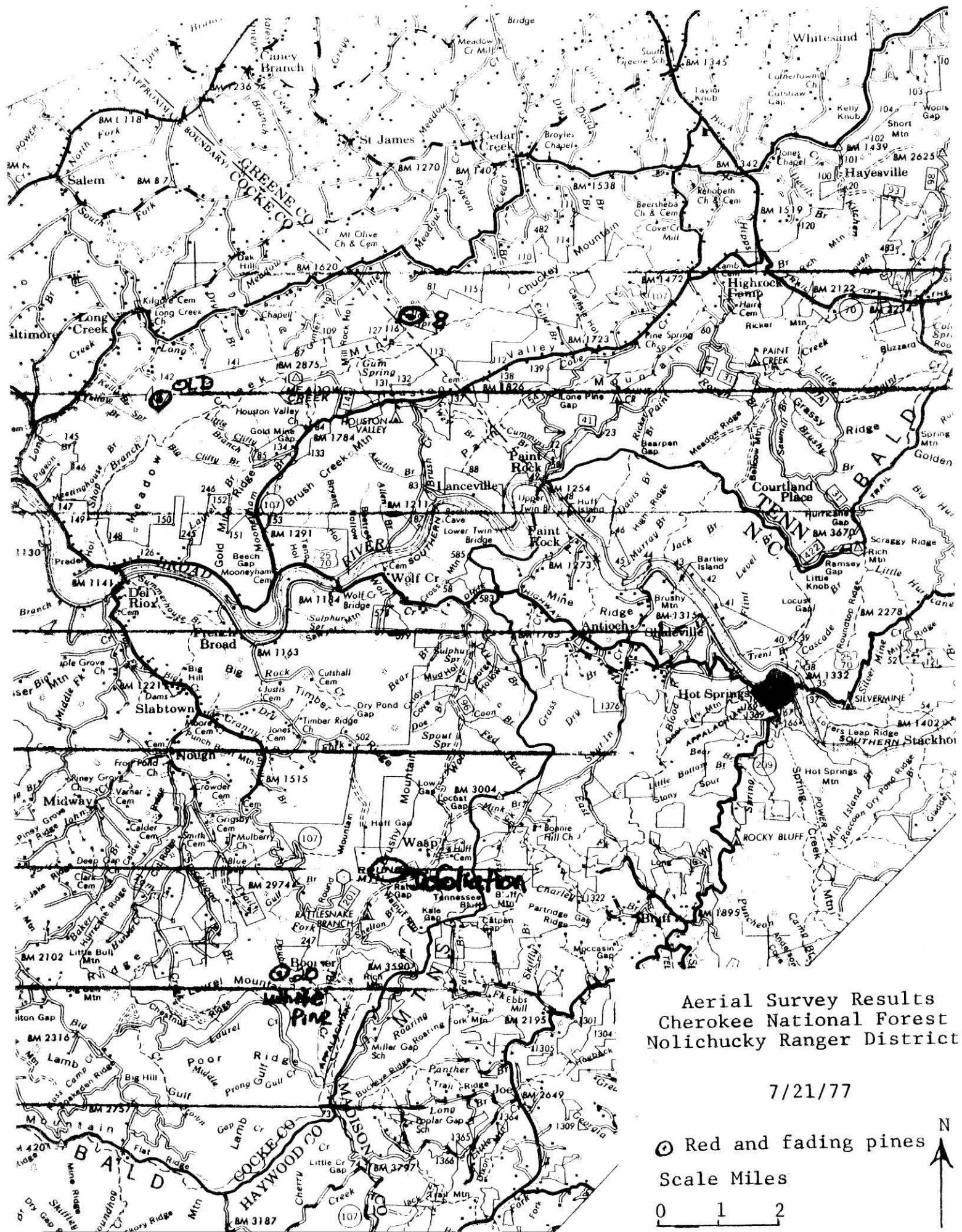
MARYVILLE 14 MILES



Aerial Survey Results
Cherokee National Forest
Tellico Ranger District

8/11/77
8/24/77

① Red and fading pines
Scale Miles
0 1 2



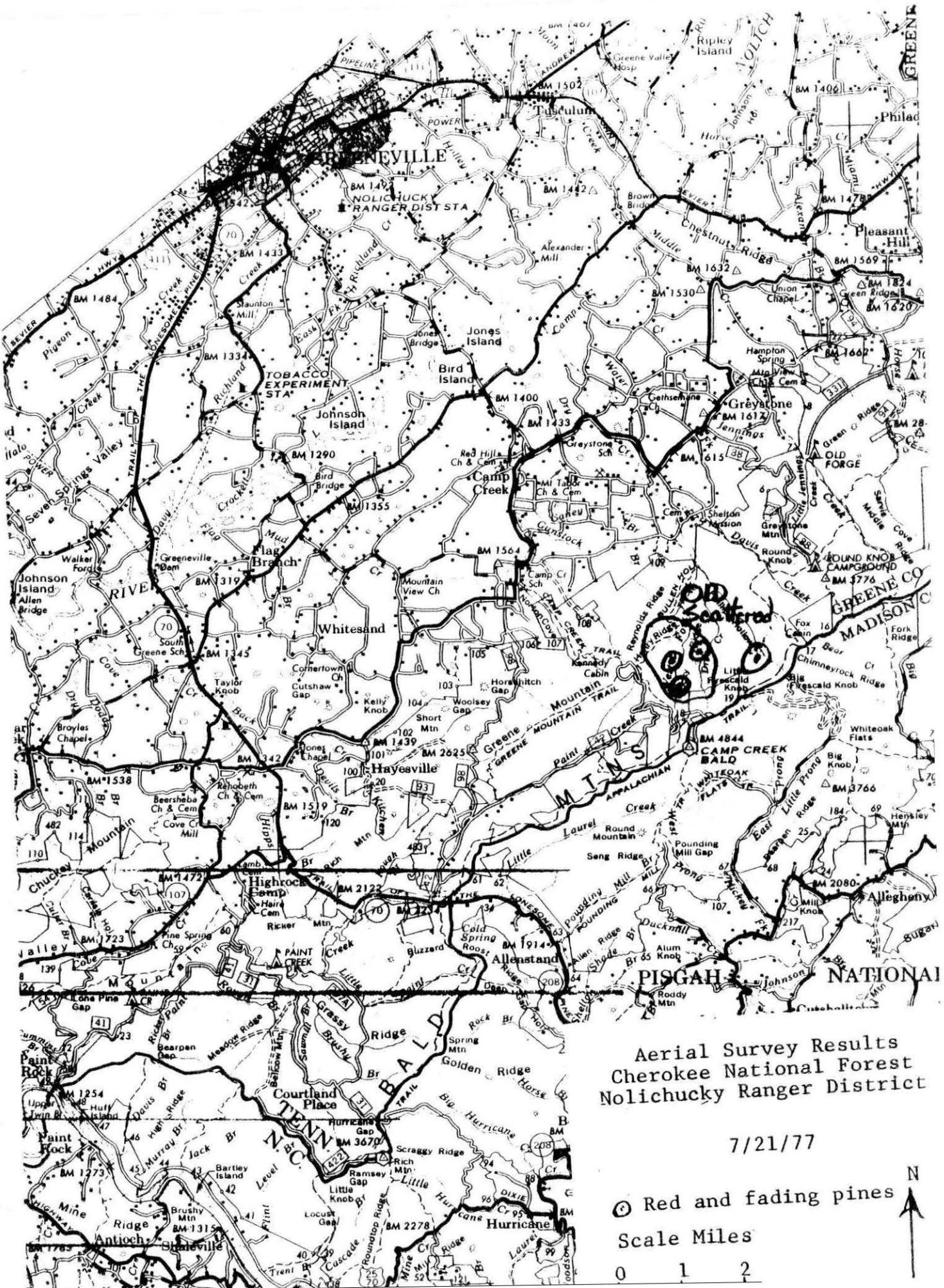
Aerial Survey Results
Cherokee National Forest
Nolichucky Ranger District

7/21/77

○ Red and fading pines
Scale Miles

0 1 2

N



Aerial Survey Results
Cherokee National Forest
Nolichucky Ranger District

7/21/77

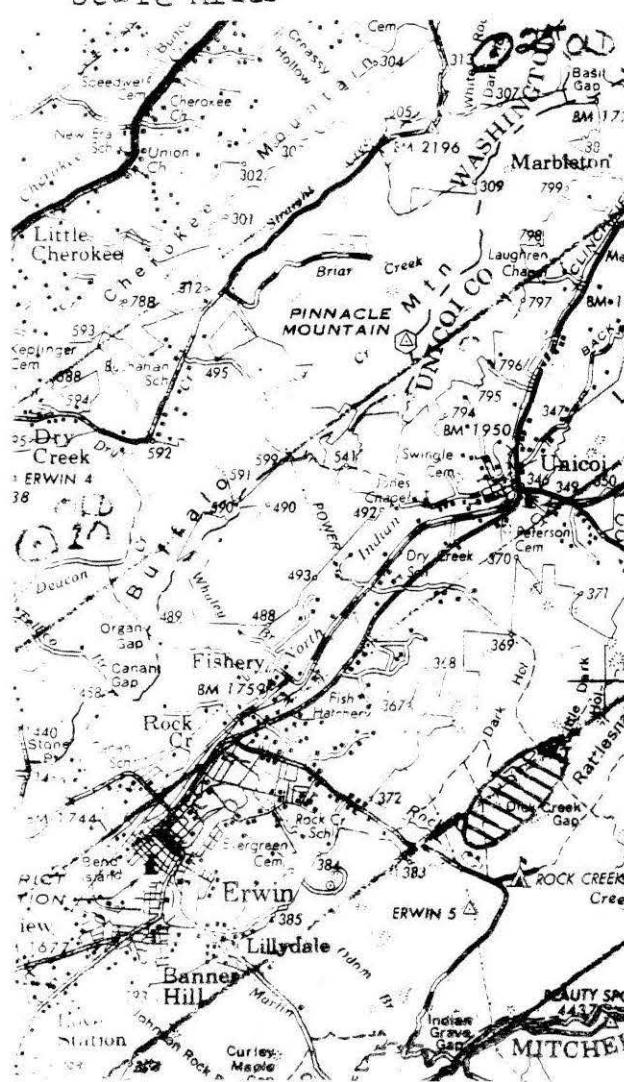
① Red and fading pines
Scale Miles

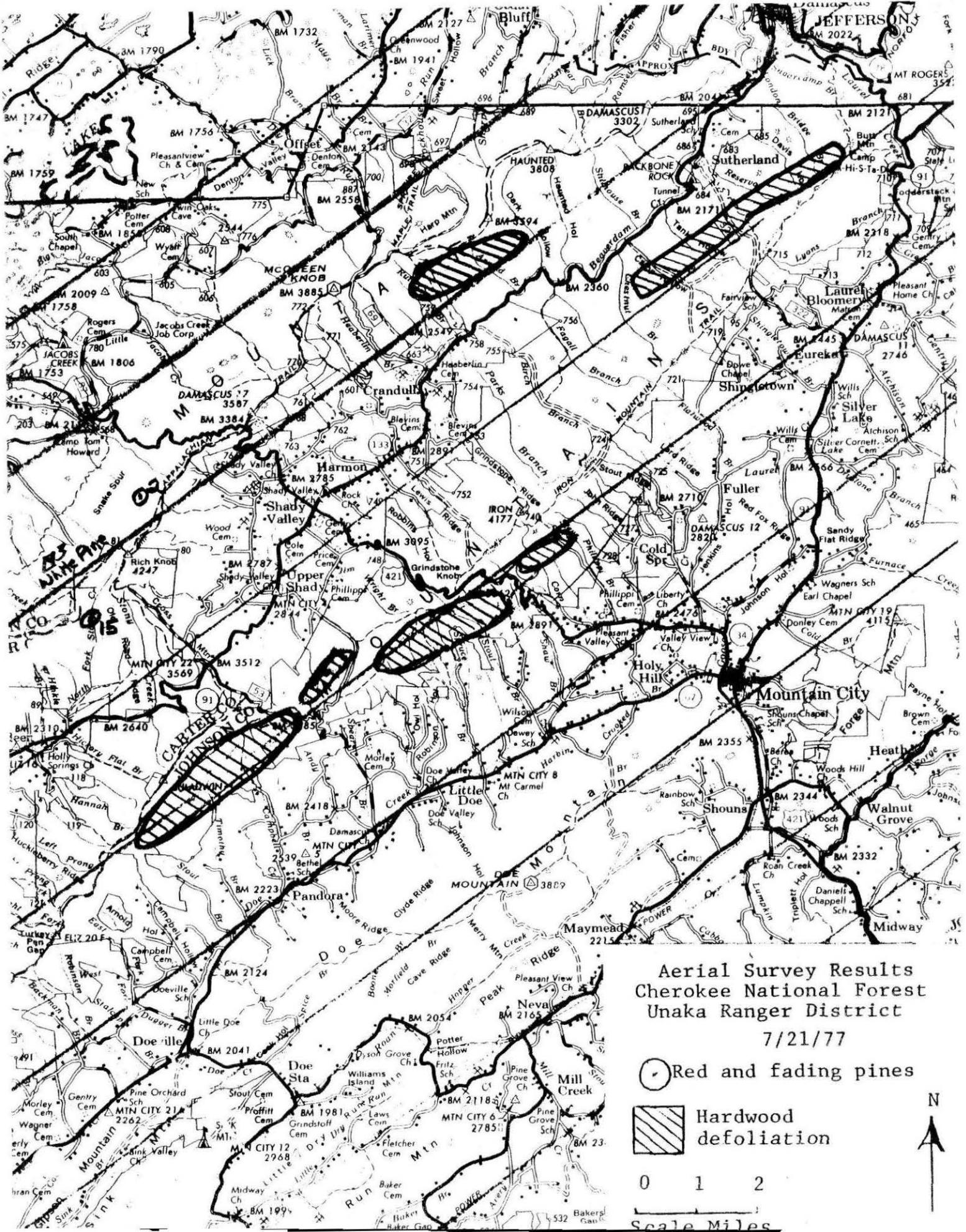
0 1 2

N

Aerial Survey Results
Cherokee National Forest
Watauga Ranger District

○ Red and fading pines
■ Hardwood Defoliation
0 1 2
Scale Miles





Aerial Survey Results
Cherokee National Forest
Unaka Ranger District

7/21/77

○ Red and fading pines

■ Hardwood defoliation

0 1 2
Scale Miles



Aerial Survey Results
Cherokee National Forest
Unaka Ranger District

7/21/77

• Red and fading pines

Hardwood
defoliation

0 1 2

Scale Miles

